L Number	Hits	Search Text	DB	Time stamp
1	10	Pain NEAR Bertrand	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 12:05
2	13	petitte NEAR james	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 12:05
-	57	chimeric NEAR chicken	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:50
-	638	(chicken SAME embryonic SAME stem) AND (transgenic OR chimeric)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	1658	transgenic WITH chicken	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	659	chicken SAME embryonic SAME stem	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	29	((chicken SAME embryonic SAME stem) AND (transgenic OR chimeric)) and chicken.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	29	((chicken SAME embryonic SAME stem) AND (transgenic OR chimeric)) and chimeric.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	23	((chicken SAME embryonic SAME stem) AND (transgenic OR chimeric)) and 800/19.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	57	800/19.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	51	800/19.ccls. and embryonic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:22
-	6	ORIGEN NEAR THERAPEUTICS	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:52
-	2	Van ADJ de ADJ Lavoir NEAR Marie-Cecile	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:53
-	9	Etches NEAR Robert	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/10 15:53
-	23	(US-6397777-$ or US-6395961-$ or US-6515199-$ or US-6287863-$ or US-6156569-$ or US-6333192-$ or US-5897998-$ or US-5759763-$ or US-5784992-$ or US-6114168-$ or US-6563017-$ or US-5830510-$ or US-5340740-$ or US-5656479-$ or US-5162215-$).did. or (US-20010021528-$ or US-20030170888-$ or US-20030172387-$).did. or (WO-9838283-$ or WO-3064627-$ or WO-9910505-$).did. or (WO-200047717-$ or WO-2003064627-$).did.	USPAT; US-PGPUB; EPO; DERWENT	2003/12/10 15:57

```
=> d his

     (FILE 'HOME' ENTERED AT 16:35:36 ON 10 DEC 2003)

     FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED
     AT 16:36:14 ON 10 DEC 2003
L1          122 S CHIMERIC CHICKEN
L2           72 DUP REM L1 (50 DUPLICATES REMOVED)
L3        70888 S L2 AND (EMBRYONIC STEM CELLS) OR CES OR ES OR PGC
L4           22 S L2 AND ((EMBRYONIC STEM CELLS) OR CES OR ES OR PGC)
L5           22 SORT L4 PY

     FILE 'STNGUIDE' ENTERED AT 16:43:38 ON 10 DEC 2003

     FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED
     AT 16:45:15 ON 10 DEC 2003
                E ETCHES R?/AU
L6           15 S E7
L7           15 DUP REM L6 (0 DUPLICATES REMOVED)
L8           15 SORT L7 PY

=> d an ti so au ab pi l8 15 14 7-11

L8   ANSWER 15 OF 15  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   2003:610613  CAPLUS
DN   139:160796
TI   Chimeric bird from embryonic stem cells containing transgene
SO   PCT Int. Appl., 46 pp.
     CODEN: PIXXD2
IN   Etches, Robert J.; Van de Lavoir, Marie-Cecile; Heyer, Babette;
     Diamond, Jennifer; Mather, Christine; Beemer, Kathleen; Myers, Heather
AB   Sustained cultures of avian embryonic stem cells are provided.  Injection
     of avian embryonic stem cells into recipient embryos yields chimeras with
     a significant contribution from the embryonic stem cell phenotype.
     Transgene encoding exogenous proteins are stably integrated in the
     embryonic stem cells and are present in the somatic tissue of the
     resulting chimeras.  The transgenes may encode exogenous proteins
     expressed in endodermal, ectodermal, mesodermal, or extra embryonic
     tissue.  Breeding the resulting chimera yields transgenic birds whose
     genome is comprised of exogenous DNA.
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2003064627     A2    20030807       WO 2003-US3235   20030203
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
             ML, MR, NE, SN, TD, TG
     US 2003170888     A1    20030911       US 2002-67148    20020201

L8   ANSWER 14 OF 15  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   2003:717810  CAPLUS
DN   139:241322
TI   Tissue specific expression of exogenous proteins in transgenic chickens
SO   U.S. Pat. Appl. Publ., 42 pp., Cont.-in-part of U. S. Ser. No. 67,148.
     CODEN: USXXCO
IN   Zhu, Lei; Winters-Digiacinto, Peggy; Etches, Robert J.
AB   Transgenes encoding exogenous proteins are stably integrated into
     embryonic stem cells and are present in the somatic tissue of transgenic
     or chimeric birds.  The transgenes encode exogenous proteins and are
     expressed in any of endodermal, ectodermal, mesodermal, or extra embryonic
     tissue.  Tissue specificity is provided by selecting the content of the
     transgene accordingly.  Transgenic birds whose genome is comprised of
```

transgene derived exogenous DNA express exogenous proteins with tissue specificity, and specifically express exogenous proteins in the tubular gland cells of the oviduct to conc. exogenous proteins in egg white.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003172387	A1	20030911	US 2002-216098	20020809
	US 2003170888	A1	20030911	US 2002-67148	20020201

L8 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1997:228219 CAPLUS
DN 126:247159
TI Strategies for the production of transgenic chickens
SO Methods in Molecular Biology (Totowa, New Jersey) (1997), 62(Recombinant Gene Expression Protocols), 433-450
CODEN: MMBIED; ISSN: 1064-3745
AU **Etches, Robert J.**; Verrinder Gibbins, Ann M.
AB A review, with 46 refs., covering the following topics: early embryonic development and derivation of the germline; insertion of genetic information into the newly fertilized zygote, into primordial germ cells, into blastodermal cells, and into spermatogonia and spermatozoa; and the utility of transgenic chickens.

L8 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:806287 CAPLUS
DN 130:208615
TI Deposition of genetically engineered human antibodies into the egg yolk of hens
SO Immunotechnology (1998), 4(2), 115-125
CODEN: IOTEER; ISSN: 1380-2933
AU Mohammed, S. Mansoor; Morrison, Sherie; Wims, Letitia; Trinh, K. Ryan; Wildeman, Alan G.; Bonselaar, Jacqueline; **Etches, Robert J.**
AB To det. if human Igs (hIg) are capable of being transported into the hen's egg, 10 .mu.g each of purified hIgG and hIgA were i.v. injected into SC Hyline hens and their presence in egg yolk and egg white was detd. by ELISA. In both cases deposition into the egg yolk was obsd. and in the case of hIgA, deposition was also obsd. in the egg white. Two stably transfected DT40 cell lines secreting recombinant human IgG3 and IgA (rhIgG3 and rhIgA) were injected into laying hens. The DT40 cells colonized the host and rhIgG3 and rhIgA were deposited in egg yolk. Deposition of rhIgA was also obsd. in the egg white. These data demonstrate that human Igs and other foreign proteins may be targeted to the chicken's egg. In view of the high rate of reprodn., the short generation interval, the high rates of egg prodn. and the extensive infrastructure to fractionate egg yolk proteins, it should be possible to produce large amts. of foreign protein in the eggs of transgenic chickens.

L8 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:166737 CAPLUS
DN 130:205934
TI Production of recombinant proteins in eggs
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
IN **Etches, Robert J.**; Mohammed, Mansoor; Morrison, Sherie; Wims, Letitia Alice; Trinh, Kham M.; Wildeman, Alan G.
AB The invention provides a method of prepg. a recombinant protein in an egg whereby the protein is expressed in an egg-laying mammal under conditions suitable for the expression of the protein and delivery of the protein into the egg. The protein may be any protein and can include antibodies, cytokines, hormones, enzymes, antigens for vaccines and diagnostic applications, and therapeutic peptides. The recombinant protein may be expressed in the animal and delivered to the egg using an expression system that contains a DNA sequence encoding the recombinant protein and necessary regulatory regions to provide for expression of the recombinant protein. The invention relates to the discovery that the const. region from a human Ig protein can bind to an avian oocyte and be internalized into the yolk. Thus, in one embodiment, the invention relates to the prepn. of recombinant humanized antibodies in chicken eggs.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9910505	A2	19990304	WO 1998-CA792	19980821

WO 9910505 A3 19990520
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CA 2311116 AA 19990304 CA 1998-2311116 19980821
AU 9888485 A1 19990316 AU 1998-88485 19980821
AU 750028 B2 20020711
EP 1007697 A2 20000614 EP 1998-940016 19980821
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
BR 9811981 A 20000815 BR 1998-11981 19980821
JP 2001514005 T2 20010911 JP 2000-507813 19980821
NZ 503098 A 20020628 NZ 1998-503098 19980821

L8 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:431601 CAPLUS
DN 134:175167
TI Long-term culture of chicken blastodermal cells (CBCs) and selection of transfected CBCs using antibiotic resistance
SO Methods in Molecular Biology (Totowa, New Jersey) (2000), 136(Developmental Biology Protocols, Vol. 2), 399-403
CODEN: MMBIED; ISSN: 1064-3745
AU Wei, Qingxia; Woods, Kristin L.; **Etches, Robert J.**
AB Protocols for long-term culture of chicken blastodermal cells (CBCs) developed for studyig the in vitro effects of various cytokines and growth factors are provided. Protocols for selection of genetically modified CDCs using antibiotic resistance are provided.

L8 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:431600 CAPLUS
DN 134:173588
TI Incorporation of genetically modified cells in chicken chimeras
SO Methods in Molecular Biology (Totowa, New Jersey) (2000), 136(Developmental Biology Protocols, Vol. 2), 391-397
CODEN: MMBIED; ISSN: 1064-3745
AU Zajchowski, Laura D.; Mohammed, S. Mansoor; Wei, Qingxia; **Etches, Robert J.**
AB Protocols outlining procedures for producing DT40/SC Hy-Line chicken chimeras are outlined. Protocols for prepn. of Ig exts. from egg yolk and albumen are given in detail.

=>